

**2278x1133x35**

Module dimensions (mm)

**182x91**

Cell size (mm)

**144 CELL**

Mono PERC module

**525-550Wp**

Power output

**1500V DC**

Max. system voltage

**21.28%**

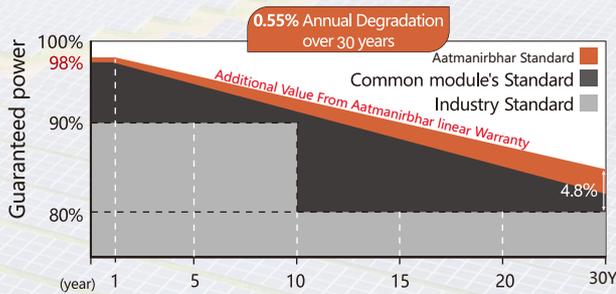
Max. efficiency



## Quality Guarantee

12-Years Material & technology warranty

30- Years Linear power output warranty



- ▶ Aatmanirbhar solar Liner power Output Guarantee
- ▶ Standard Liner Power Output Guarantee

## KEY FEATURES



### Higher Power Output

Module power increases by 5-25% generally, bringing significantly lower LCOE and higher IRR. 0-5w positive tolerance output warranty.



### ZERO LID

N-Type cell is characterized by "0" LID, which generates more power



### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and material control.



### Optimal Choice for Ultra-large Power Plants

Contribute to Lower BOS cost and LCOE.



### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance, Lower temperature coefficient and operating temperature.



### More Outstanding Low-light Performance

Higher power output even under low-light environments like on cloudy days



### Enhanced Mechanical Load

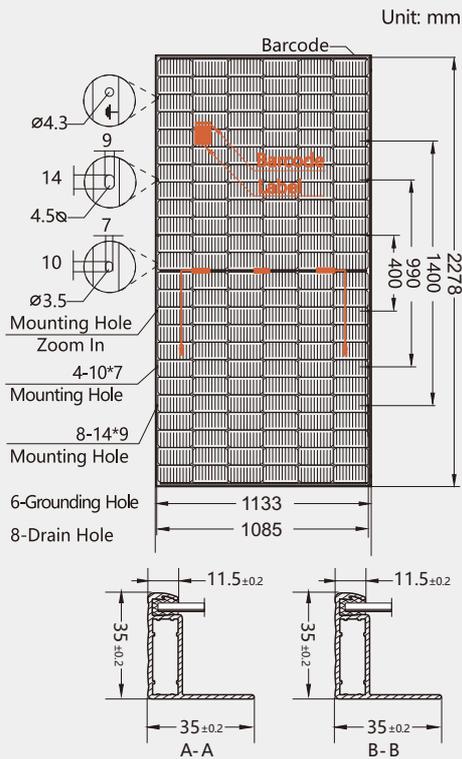
Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa).



### EL Full Inspection

Three stage 100% EL Inspection warranting defect-free product.

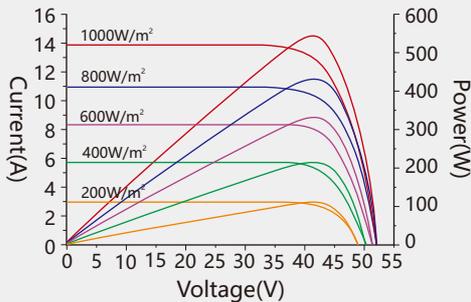
### Dimensions of PV Module



### ASPL-550W-182MP/144

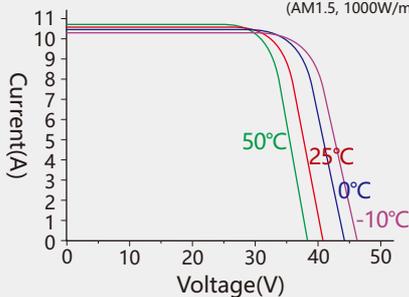
#### I-V characteristics at different irradiances

Cells temp.=25°C



#### I-V characteristics at different temperatures

(AM1.5, 1000W/m²)



### ELECTRICAL DATA(STC)

Model Number	ASPL-525W-182M/144	ASPL-530W-182M/144	ASPL-535W-182M/144	ASPL-540W-182M/144	ASPL-545W-182M/144	ASPL-550W-182M/144
Rated Power in Watts-Pmax(Wp)	525	530	535	540	545	550
Open Circuit Voltage-Voc(V)	49.12	49.32	49.52	49.69	49.90	50.10
Short Circuit Current-Isc(A)	13.63	13.70	13.78	13.86	13.90	13.95
Max. Power Voltage-Vmpp(V)	41.26	41.41	41.55	41.72	41.90	42.10
Max. Power Current-Imp(A)	12.73	12.81	12.88	12.95	13.02	13.07
Module Efficiency(%)	20.31	20.51	20.70	20.89	21.09	21.28

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM 1.5,  
NOCT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s.

### MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Size	182mm×91mm
Cell Configuration	144 cells (6×12+6×12)
Module Dimensions	2278 x 1133×35mm
Weight	28.6kg
Glass	High Transmission, Low Iron, Tempered ARC Glass 3.2mm
Back Sheet	White
Frame	Anodized Aluminium Alloy type 6005 T6, Silver/Black Color
J-box	IP68, 1500V DC, 3 Diodes
Cables	4.0mm <sup>2</sup> , (+) 300mm, (-) 300mm ( Connector Included )
Connector	MC4-compatible

### TEMPERATURE & MAXIMUM RATINGS

Nominal Operating Cell Temperature (NOCT)	44°C ± 2°C
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	0.04%/°C
Temperature Coefficient of Pmax	-0.36%/°C
Operational Temperature	-40°C ~ +85°C
Max. System Voltage	1500V DC
Max. Series Fuse Rating	25A

### PACKAGING CONFIGURATION

Number of Modules Per Container	620
Number of Modules Per Pallet	31
Number of Pallets Per Container	20
Packaging Box Dimensions (l×w×h) (mm)	2300×1120×1260
Box Gross Weight (kg)	916

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT